

**Listing of Claims.** This Listing of Claims replaces all prior versions and listings of Claims in the application.

1        1. (Withdrawn) An audible alert device for generating a pulse width  
2 modulated

3 signal, the audible alert device connectable to a power source, the audible alert  
4 device comprising:

5        a circuit including a pulse width modulated signal generator; and  
6        a transducer conductively connected to the circuit.

1        2. (Withdrawn) The audible alert device of Claim 1 further comprising  
2 the circuit and the transducer at least partially enclosed within a housing.

1        3. (Withdrawn) The audible alert device of Claim 1 wherein the pulse  
2 width modulated signal generator further comprises:

3        a first square wave frequency timer for generating a pulse width modulated  
4 signal;

5        a second square wave frequency timer for generating a square wave; and  
6        a duty cycle controller for controlling a decibel output level of the transducer.

1        4. (Withdrawn) The audible alert device of Claim 1 wherein the circuit  
2 further comprises a feedback signal processor conductively connected to the pulse  
3 width modulated signal generator.

1        5. (Withdrawn) The audible alert device of Claim 1 further comprising:  
2        an output current sensor conductively connected to the transducer, for  
3        sensing a resistance at the transducer and generating a signal representative of  
4        transducer output current level;  
5        a feedback signal processor including;

6           a feedback signal generator conductively connected to the output current  
7 sensor for generating a signal representative of transducer output current level; and  
8           a resonant frequency peaking circuit for processing the signal representative  
9 of transducer output current level and generating a feedback signal representative of  
10 transducer output current level, the pulse width modulated signal generator  
11 responsive to the feedback signal to generate a pulse width modulated signal at a  
12 resonant frequency.

1           6. (Withdrawn) The audible alert device of Claim 1 further comprising:  
2           an output current sensor conductively connected to the transducer, for  
3 sensing a resistance at the transducer and generating an analog signal  
4 representative of transducer output current level;  
5           a feedback signal processor including;  
6           a feedback signal generator conductively connected to the output current  
7 sensor, the feedback signal generator including an analog to digital converter for  
8 converting the analog signal representative of transducer output current level to a  
9 digital value representative of transducer output current level; and  
10          a resonant frequency peaking circuit conductively connected to the pulse  
11 width modulated signal generator for processing the digital value representative of  
12 transducer output power level and generating a feedback signal representative of  
13 transducer output current level, the pulse width modulated signal generator  
14 responsive to the feedback signal to generate a pulse width modulated signal at a  
15 resonant frequency.

1           7. (Withdrawn) An audible alert device for generating a pulse width  
2 modulated  
3 signal, the audible alert device connectable to a power source, the audible alert  
4 device comprising:  
5           a transducer;  
6           a circuit including a power conditioning circuit conductively connected to the  
7 transducer; and

8           a pulse width modulated signal generator conductively connected to the  
9 transducer, the pulse width modulated signal generator including a first square wave  
10 frequency timer for generating a pulse width modulated signal, a second square  
11 wave frequency timer for generating a square wave and a duty cycle controller for  
12 controlling a decibel output level of the transducer.

1           8.       (Withdrawn)      The audible alert device of Claim 7 further  
2 comprising the circuit and the transducer at least partially enclosed within a housing.

1           9.       (Withdrawn)      The audible alert device of Claim 7 further  
2 comprising:  
3           an output current sensor conductively connected to the transducer, for  
4 sensing a resistance at the transducer and generating a signal representative of  
5 transducer output current level;  
6           a feedback signal processor including;  
7           a feedback signal generator conductively connected to the output current  
8 sensor for generating a signal representative of transducer output current level; and  
9           a resonant frequency peaking circuit for processing the signal representative of  
10 transducer output current level and generating a feedback signal representative of  
11 transducer output current level, the pulse width modulated signal generator  
12 responsive to the feedback signal to generate a pulse width modulated signal at a  
13 resonant frequency.

1           10.      (Withdrawn)     The audible alert device of Claim 7 further comprising:  
2           an output current sensor conductively connected to the transducer, for  
3 sensing a resistance at the transducer and generating an analog signal  
4 representative of transducer output current level;  
5           a feedback signal processor including;  
6           a feedback signal generator conductively connected to the output current  
7 sensor, the feedback signal generator including an analog to digital converter for

8 converting the analog signal representative of transducer output current level to a  
9 digital value representative of transducer output current level; and  
10           a resonant frequency peaking circuit conductively connected to the pulse  
11 width modulated signal generator for processing the digital value representative of  
12 transducer output power level and generating a feedback signal representative of  
13 transducer output current level, the pulse width modulated signal generator  
14 responsive to the feedback signal to generate a pulse width modulated signal at a  
15 resonant frequency.

1           11. (Original) A method for manufacturing an audible alert device  
2 includes the steps of:  
3           manufacturing a programmable audible alert device circuit including a  
4 memory device;  
5           connecting the programmable audible alert device circuit to a transducer;  
6           installing the programmable audible alert device circuit and transducer in a  
7 housing;  
8           casting the programmable audible alert device circuit in a sealing fluid;  
9           connecting the audible alert device to a device programming station; and  
10          programming the audible alert device.

1           12. (Original) The method for manufacturing an audible alert device of  
2 Claim 11 wherein the step of manufacturing a programmable audible alert device  
3 circuit includes manufacturing a circuit including a pulse width modulated signal  
4 generator conductively connected to the transducer, a power conditioning circuit  
5 conductively connected to the pulse width modulated signal generator, a power  
6 conductor, conductively connected to the power conditioning circuit, an output  
7 current sensor conductively connected to the transducer, a feedback signal  
8 processor connected to the output current sensor and a memory device conductively  
9 connected to the feedback signal processor.

1           13. (Original) The method for manufacturing an audible alert device of  
2 Claim 11 wherein the step of connecting the audible alert device to a device  
3 programming station includes connecting the audible alert device to the device  
4 programming station by one or more power conductors of the programmable audible  
5 alert device.

1           14. (Original) The method for manufacturing an audible alert device of  
2 Claim 11 wherein the step of programming the audible alert device includes  
3 transferring operation mode data to the memory device, the operation mode data  
4 representative of pre-selected operation mode data selected from a group data for  
5 operating audible alert devices.

1           15. (Original) The method for manufacturing an audible alert device of  
2 Claim 11 wherein the step of programming the audible alert device includes  
3 transferring resonant peaking subroutine data to the memory device.

1           16. (Original) The method for manufacturing an audible alert device of  
2 Claim 11 wherein the step of programming the audible alert device includes  
3 transferring decibel peaking subroutine data to the memory device.

1           17. (Original) The method for manufacturing an audible alert device of  
2 Claim 11 wherein the step of programming the audible alert device includes  
3 conducting a resonant peaking subroutine.

1           18. (Original) The method for manufacturing an audible alert device of  
2 Claim 11 wherein the step of programming the audible alert device includes  
3 conducting a decibel peaking subroutine.

1           19. (Original) A method for operation of an audible alert device in a  
2 normal operations mode includes the steps of:

- 3           powering the audible alert device;
- 4           monitoring an output current;
- 5           conducting a dynamic resonant frequency peaking subroutine;
- 6           conducting a dynamic decibel peaking subroutine ;
- 7           initiating generation of a pulse width modulated signal; and
- 8           outputting the pulse width modulated signal at a transducer.